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L1 ANSWER 1 OF 1 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN

AN 1990-190622 [25] WPIDS

DNC C1990-082731

TI Heat-resistant catalyst for treating exhaust gas of cars - comprises carrier with composite oxide composed of aluminium magnesium and rare earth element of e.g. lanthanide, etc..

DC H06 J04 L02

PA (HITG) BABCOCK-HITACHI KK

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JP 2758616 B2 19980528 (199826) 5 B01J023-63

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ICS B01D053-36; B01D053-94; B01J023-10; B01J023-56; B01J032-00

AB JP 02126939 A UPAB: 19930928

Catalyst comprises a carrier including a composite-oxide composed of Al, Mg and rare-earth element of La, Pr or Nd, and a catalytic active component supported into the carrier; where the carrier can be magnetoplumbite-structure e.g.  $\text{MgAl}_{11}\text{Ln}_9$ , or  $\text{Mg}_x\text{Al}_y\text{Ln}_z\text{O}_m$  ( $\text{Ln}=\text{La, Pr or Nd}$ ;  $x = 0.1-10$ ;  $y = 5-40$ ;  $z = 0.1-4$ ;  $m$  is optional); this catalytic active component is element of gp. VIII in periodic table, Mn, Cr, Cu, rare-earth element, Zn, Sn, Sb, Ca or Ba; the composite-oxide can be layer-aluminate structure.

Pref. the oxide is e.g. rare-earth element beta-alumina or aluminate, Mg-aluminate can be included in the composite-oxide. The magnetoplumbite-structure e.g.  $\text{MgAl}_{11}\text{Ln}_9$  can be prepared by heat-treating raw-mixt. of the oxide of the elements at more than 800 deg.C. The catalytic active component can be supported by dipping or kneading.

USE/ADVANTAGE - Catalyst is useful at a high temp. (e.g. 1200-1500 deg.C) and therefore used for combustion, treating exhaust-gas of cars, high-temp-steam-reforming or deoxidising. Catalyst is good in heat-resistance and high catalyst-function at more than 1000 deg.C; e.g. catalytic combustion power of the catalysts is greater than 99.9% on a test for gas contg. methane.

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FS CPI

FA AB

MC CPI: H04-E04; H04-F02E; H06-C03; J01-E02D; J04-E04; L02-G; N01-B; N02; N03